



US009124691B2

(12) **United States Patent**
Hicks, III et al.

(10) **Patent No.:** **US 9,124,691 B2**
(45) **Date of Patent:** **Sep. 1, 2015**

(54) **LIFE CYCLE MANAGEMENT OF
USER-SELECTED APPLICATIONS ON
WIRELESS COMMUNICATIONS DEVICES**

(2013.01); **G06Q 30/02** (2013.01); **H04M**
1/72525 (2013.01); **H04M 1/72583** (2013.01);
H04M 3/4878 (2013.01)

(75) Inventors: **John Alson Hicks, III**, Roswell, GA
(US); **Douglas R. O'Neill**, Marietta, GA
(US)

(58) **Field of Classification Search**
USPC 379/114.04, 114.05, 114.13, 201.05,
379/121.06, 123, 221.07; 717/174, 175,
717/168, 178, 177, 173
See application file for complete search history.

(73) Assignee: **AT&T Intellectual Property I, L.P.**,
Atlanta, GA (US)

(56) **References Cited**

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 498 days.

U.S. PATENT DOCUMENTS

(21) Appl. No.: **13/307,713**

7,266,595	B1 *	9/2007	Black et al.	709/223
2003/0147369	A1 *	8/2003	Singh et al.	370/338
2004/0015998	A1	1/2004	Bokor et al.	
2004/0043753	A1	3/2004	Wake et al.	
2004/0226034	A1	11/2004	Kaczowka et al.	
2005/0026568	A1 *	2/2005	Hawker et al.	455/70
2007/0157241	A1	7/2007	Walker	
2009/0094350	A1	4/2009	Rive et al.	

(22) Filed: **Nov. 30, 2011**

(65) **Prior Publication Data**

US 2012/0079475 A1 Mar. 29, 2012

* cited by examiner

Related U.S. Application Data

Primary Examiner — Yosef K Laekemariam

(74) *Attorney, Agent, or Firm* — Parks Wood LLC

(63) Continuation of application No. 11/555,536, filed on
Nov. 1, 2006, now Pat. No. 8,126,128.

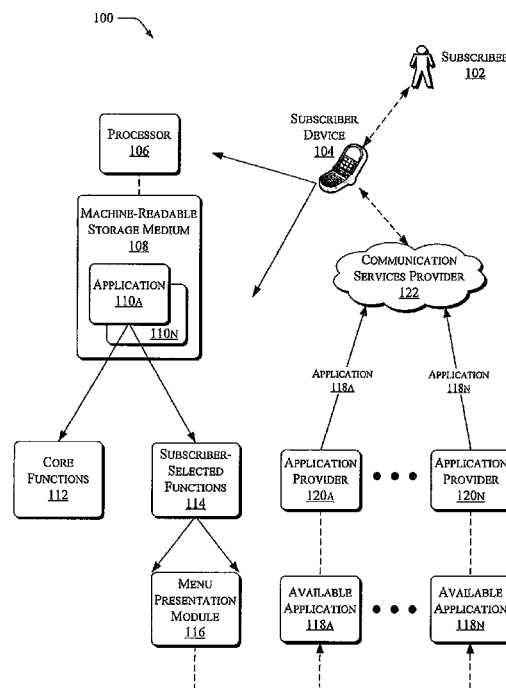
(57) **ABSTRACT**

(51) **Int. Cl.**
G06F 9/445 (2006.01)
H04M 3/42 (2006.01)
H04M 1/725 (2006.01)
G06Q 30/02 (2012.01)
H04M 3/487 (2006.01)

Tools and techniques for performing life cycle management of user-selected applications on wireless communications devices are described herein. In part, the tools provide machine-readable media for presenting to the subscriber a list of available applications for installation on the device, and for receiving selections from the subscriber of one or more of the applications. Additionally, the tools provide methods for selling advertising space on the devices.

(52) **U.S. Cl.**
CPC **H04M 3/42178** (2013.01); **G06F 8/61**

20 Claims, 7 Drawing Sheets



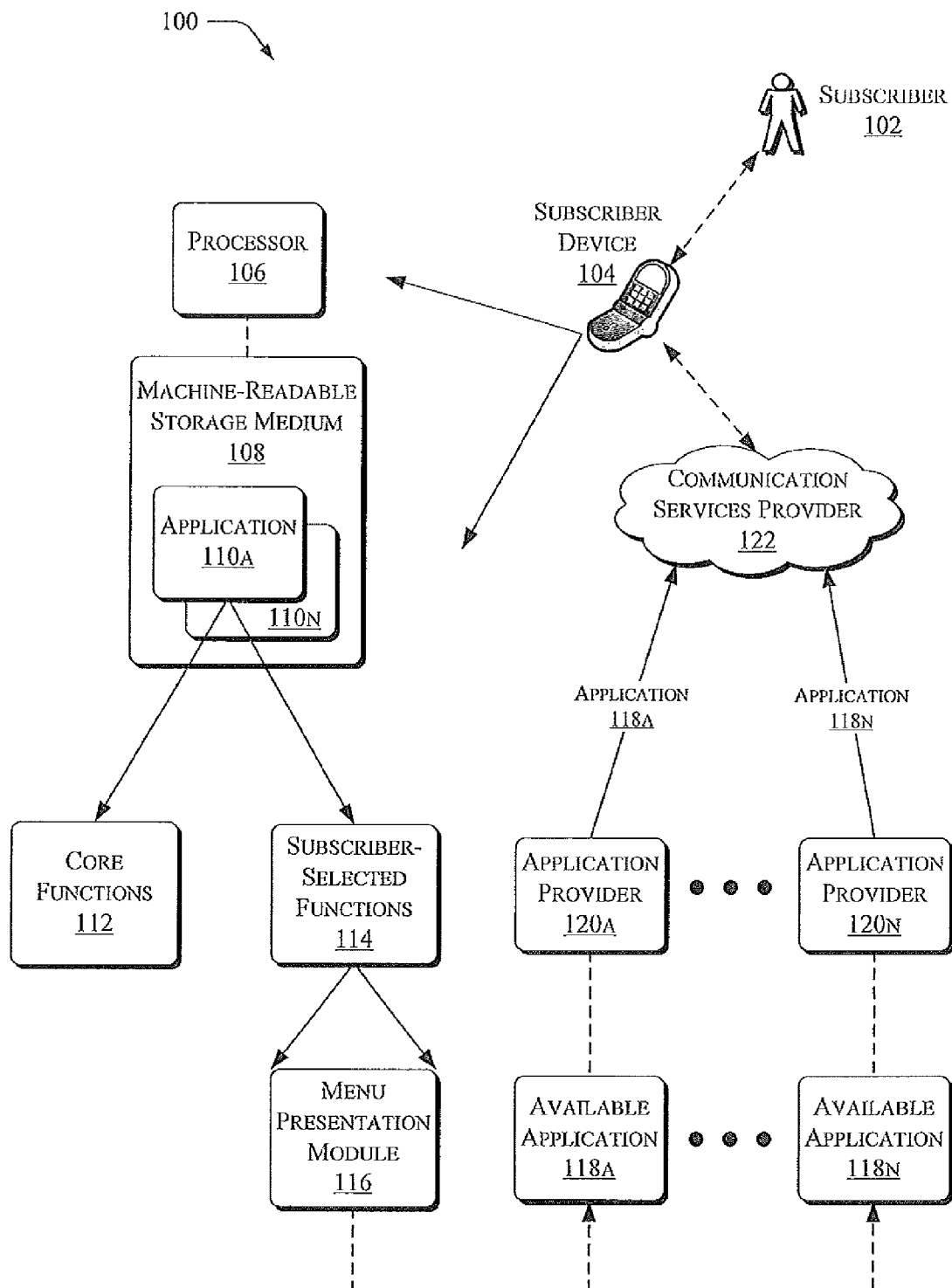


FIGURE 1

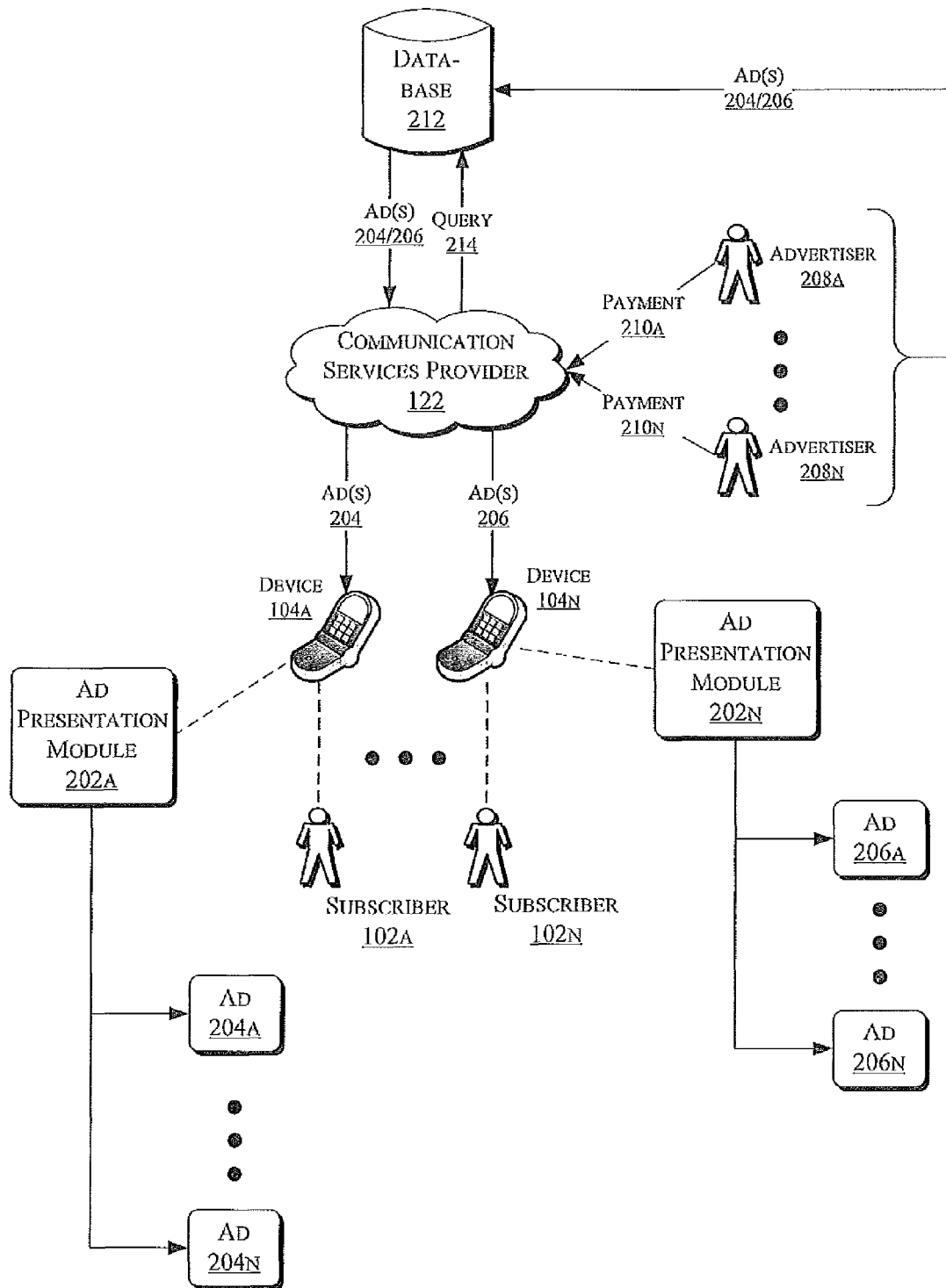


FIGURE 2

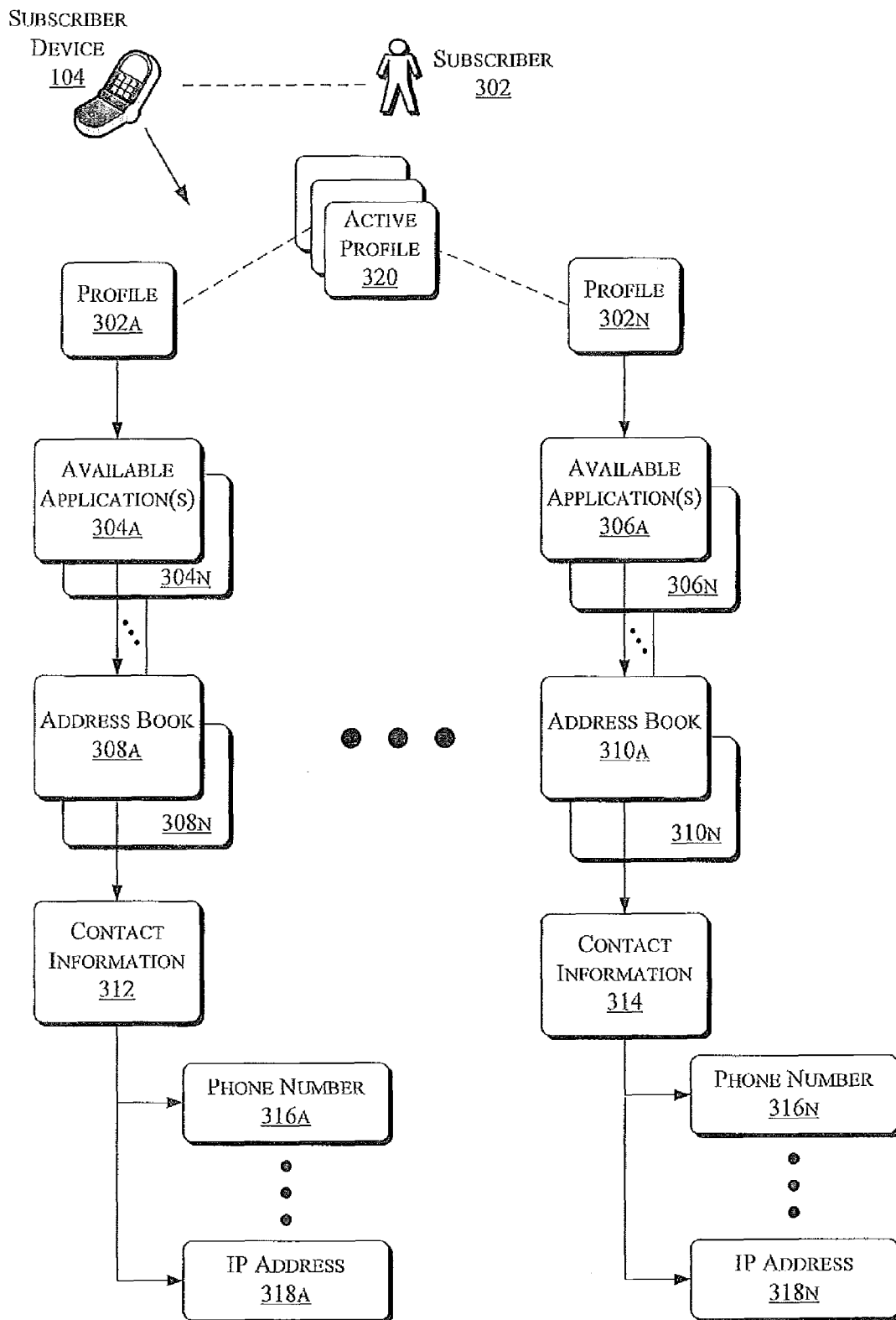


FIGURE 3

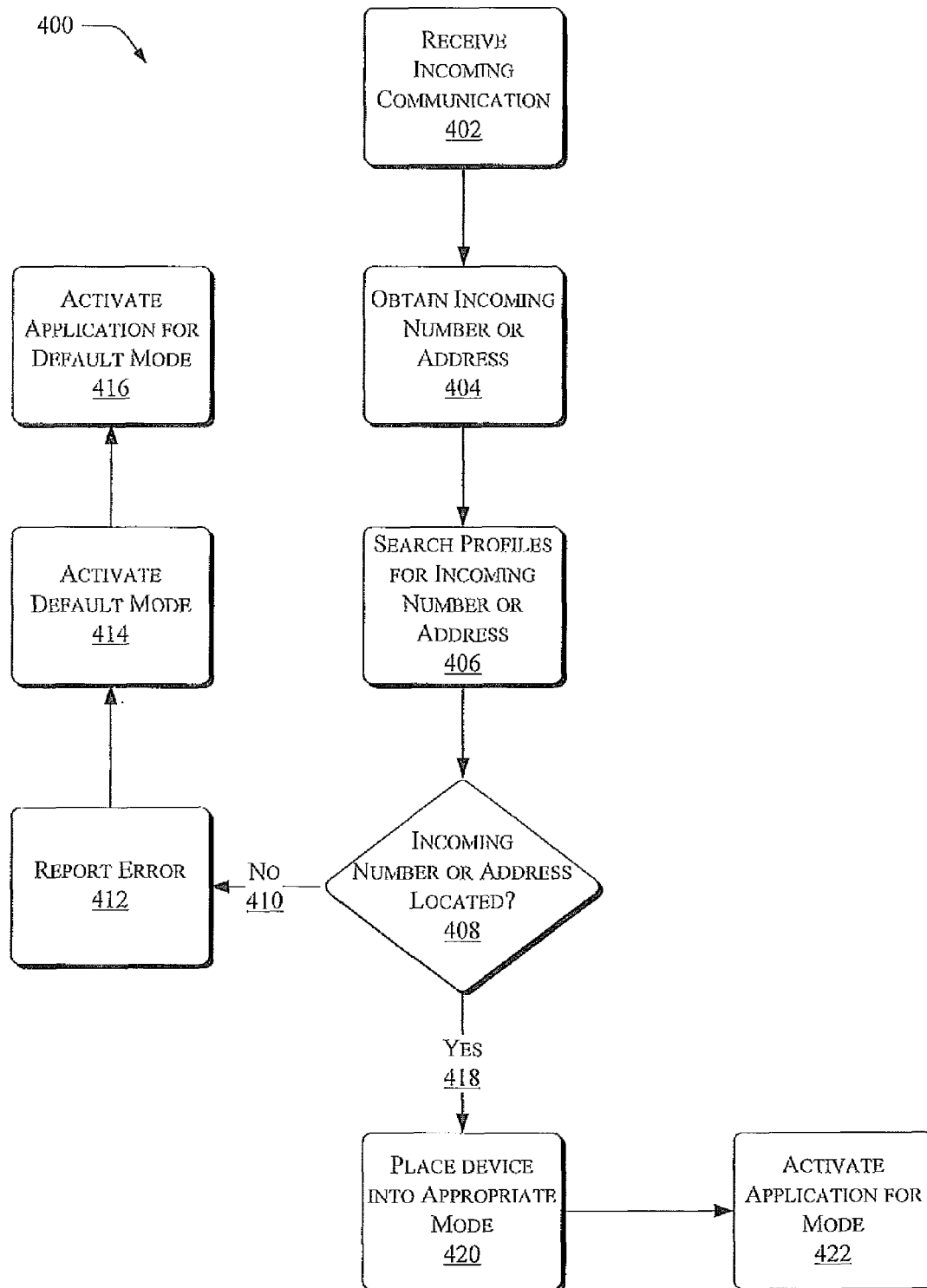


FIGURE 4

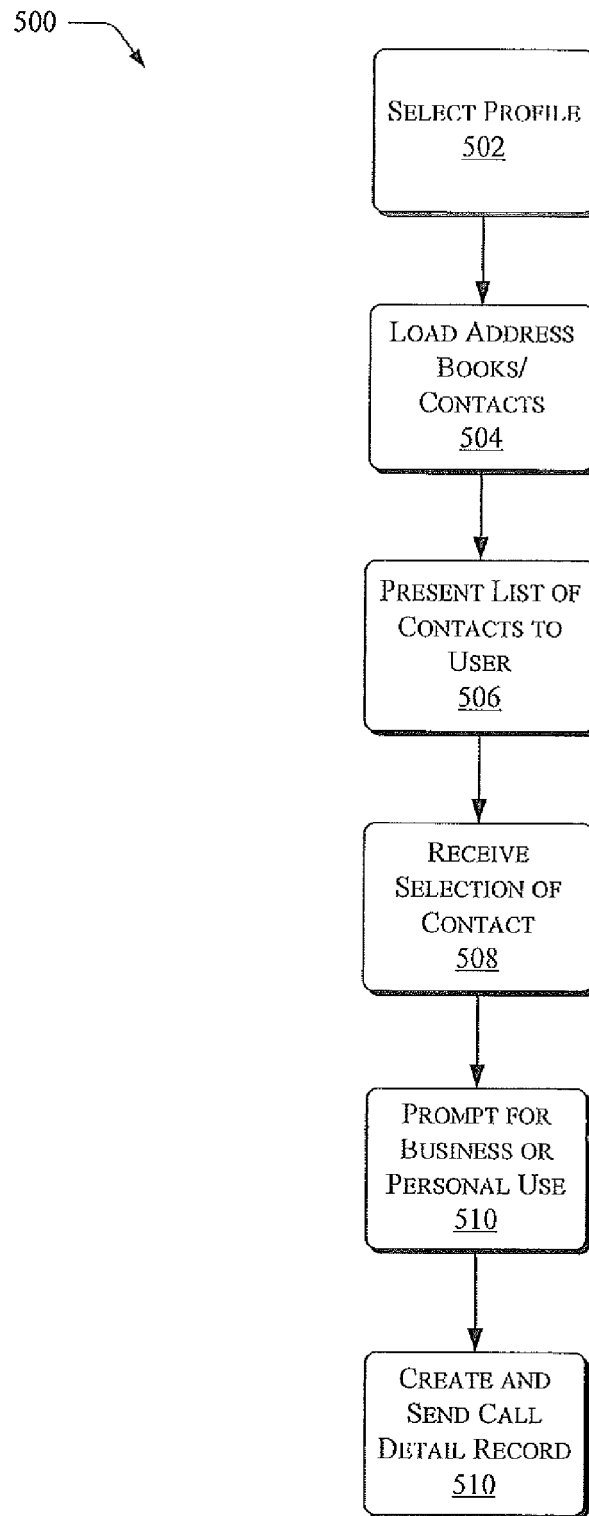
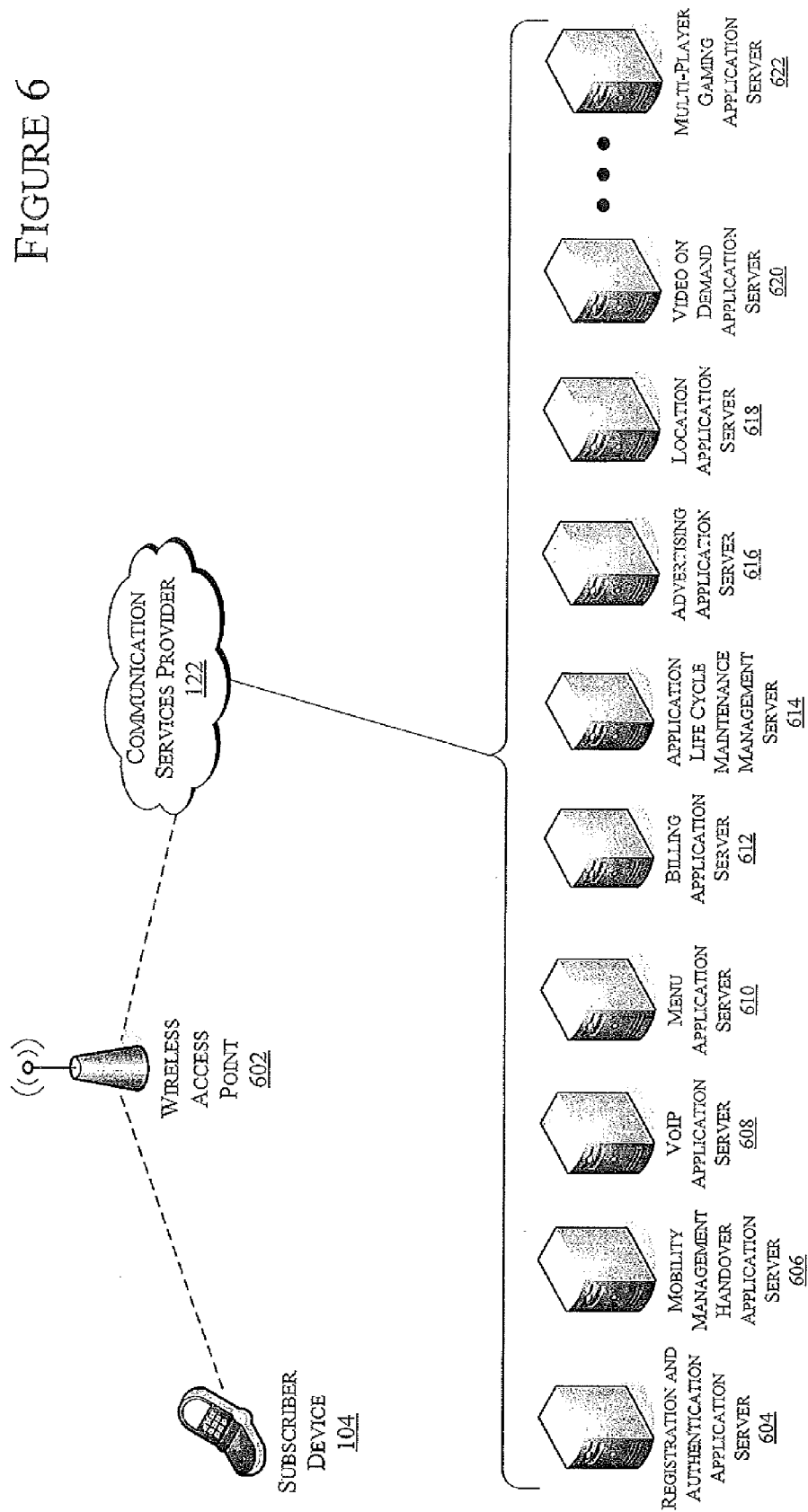


FIGURE 5

FIGURE 6



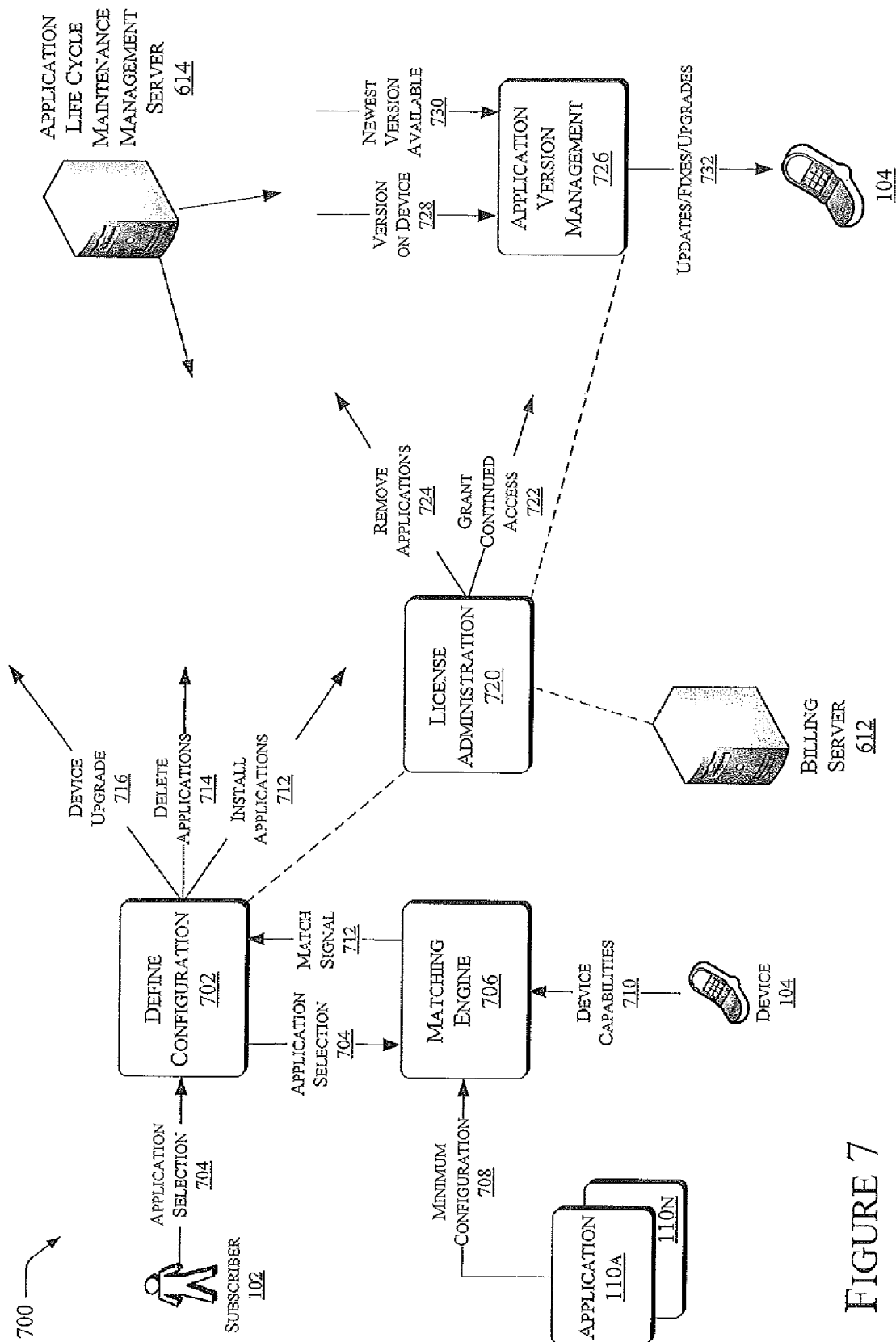


FIGURE 7

LIFE CYCLE MANAGEMENT OF USER-SELECTED APPLICATIONS ON WIRELESS COMMUNICATIONS DEVICES

BACKGROUND

As wireless communications devices become more powerful and sophisticated, an increasing number of applications are becoming available for these devices. Additionally, different makes and models of such devices continue to proliferate. As the market for such devices expands, different types of customers may consider purchasing and using these devices, and installing different applications on those devices.

Typically, the customers manually install the applications onto the devices, and thereafter maintain the applications manually, including un-installing applications. In some cases, installing and managing these applications may be a challenge, particularly for inexperienced or casual customers. For example, it may be difficult for a customer to determine whether his or her device meets the minimum configuration specified for a given application of interest. Once the application is installed, customers may not be aware of subsequent updates, bug fixes, or upgrades available for the application, unless the customers proactively search for these items.

SUMMARY

Tools and techniques for performing life cycle management of user-selected applications on wireless communications devices are described herein. In part, the tools provide machine-readable media for presenting to the subscriber a list of available applications for installation on the device, and for receiving selections from the subscriber of one or more of the applications. The tools provide a mechanism for removing applications from the device. Additionally, the tools provide methods for selling advertising space on the devices.

BRIEF DESCRIPTIONS OF THE DRAWINGS

The teachings herein are described with reference to the accompanying figures. In the figures, the left-most digit(s) of a reference number identifies the figure in which the reference number first appears. The use of the same reference numbers in different figures indicates similar or identical items.

FIG. 1 is a block diagram of an overall environment for performing life cycle management of user-selected applications on wireless communications devices.

FIG. 2 is a combined block and flow diagram of methods related to selling advertising space on the wireless communications devices.

FIG. 3 is a block diagram of a plurality of different profiles that may be supported by the wireless communications devices.

FIG. 4 is a flow diagram of a process performed when the wireless communications devices receive terminating or incoming communications.

FIG. 5 is a flow diagram of a process performed when the wireless communications devices initiate outgoing communications.

FIG. 6 is a block diagram of illustrative components of a communications service provider, suitable for supporting life cycle management of user-selected applications on wireless communications devices.

FIG. 7 is a block diagram of illustrative functions that may be performed by an application life cycle maintenance management server, as shown in FIG. 6.

DETAILED DESCRIPTION

FIG. 1 illustrates an overall environment **100** for performing life cycle management of user-selected applications on wireless communications devices. A customer or user, illustrated in FIG. 1 as a “subscriber” **102** may use a communication device, illustrated in FIG. 1 as a “subscriber device” **104**, and may obtain services related thereto. It should be appreciated that the term “subscriber” includes not only a user with a subscription to a communication service for a communication device but also an authorized user of the communication service for the communication device. Moreover, although one subscriber and one subscriber device are shown in FIG. 1 for simplicity of illustration, it should be appreciated that any number of subscribers and subscriber devices may be used.

The device **104** may include one or more processors **106** that communicate with one or more instances of machine-readable or computer-readable storage media **108**. The media **108** may store software that may be loaded into the processor **106** and executed, thereby causing the device **104** to perform the various functions described herein. More specifically, the media **108** may store one or more applications **110**. FIG. 1 shows two applications **110A** and **110N** for convenience only, but the media **108** may contain any number of applications.

The applications **110** may be characterized as core functions, represented generally at block **112**, or as subscriber-selected functions, represented generally at block **114**. Generally, the core functions **112** may be installed on the device **104** as a minimum configuration, and may include applications related to authenticating subscribers, registering the devices on communications networks, handling over the devices from one cell or network to another, providing voice communications and voice mail services, or the like.

The subscriber-selected functions **114** may provide extra features additional to the core functions **112**. The subscriber **102** may select one or more of these functions for installation on the device **104**, either at the time of purchasing the device **104** or some time afterwards. Examples of the subscriber-selected functions **114** may include applications related to e-mailing, voice over IP (VoIP) functions, instant messaging (IMing), chat clients, location, video on demand, multi-player gaming or the like.

The media **108** may include a menu presentation module **116** that assembles a menu containing one or more available applications **118** for selection and installation on the device **104**. The menu presentation module **116** may present the menu to the subscriber using the device **104**. The available applications **118** may correspond to the subscriber-selected functions **114**. By selecting one or more of the available applications presented on the menu, the subscriber may configure the device **104** to perform any of the subscriber-selected functions **114**. FIG. 1 shows two available applications **118A** and **118N** for convenience of illustration only, but the environment **100** may include any number of available applications.

One or more application providers **120** may provide the available applications **118** to a communications services provider **122**. In the course of obtaining rights to use the device **104** and accessing services related thereto, the subscriber **102** may interact or contract with the services provider. In turn, the services provider **122** may have relationships with one or more of the application providers **120**. The application providers **120** may be related or unrelated to the services provider **122**. For example, one or more of the application providers **120** may be third-party software vendors, relative to the services provider.

3

The device **104** may be responsive to subscriber input, selecting one or more of the available applications, for installation. In this manner, the environment **100** enables the subscriber **102** to customize the device with applications **118** suited to his or her particular purposes.

The applications **118** may include standalone client applications that reside and execute only on the device **104**, or may include client applications that interact with one or more server applications on the communication services provider **122**. Additionally, the client applications **118** may interact with one or more server applications provided by third parties, with these server applications accessible through a network associated with the communication services provider **122**.

Having described the environment **100** with FIG. 1, the discussion now turns to a description of methods related to selling advertising space on the wireless communications devices, now presented with FIG. 2.

FIG. 2 illustrates components and flows related to methods for selling advertising space on the wireless communications devices. As described above in FIG. 1, the subscribers **102A** and **102N** may obtain corresponding devices **104A** and **104N** from the services provider **122**. The devices **104A** and **104N** may include respective advertisement presentation modules **202A** and **202N** (collectively, advertisement presentation modules **202**). These advertisement presentation modules may be similar to the menu presentation module **116** shown in FIG. 1. However, the advertisement presentation module **202A** may present one or more advertisements **204A** and **204N** (collectively, advertisements **204**) to the subscriber **102A** via the device **104A**, and the advertisement presentation module **202N** may present one or more advertisements **206A** and **206N** (collectively, advertisements **206**) to the subscriber **102N** via the device **104N**.

One or more advertisers **208** may provide the advertisements **204** and **206**, through the services provider **122**. FIG. 2 shows two advertisers **208A** and **208N** for convenience only, but any number of advertisers could be included. In exchange for placing their advertisements before the subscribers **102** via the devices **104**, the advertisers **208** may provide respective payments **210A** and **210N** to the services provider.

In addition, the services provider **122** may intelligently select advertisements to be presented to the subscribers by querying a database **212**. For example, the database **212** may store information reflecting past transactions conducted between the services provider and the subscribers **102**. The database **212** may store demographic profiles of the subscribers. In other instances, the database **212** may store information pertaining to relationships with third parties. For example, the services provider and such third parties may enter into branding or marketing arrangements, so that the customers of the third parties may subscribe to the services offered by the services provider on some set of terms.

In any event, the services provider may query the database **212** with some identifier associated with a given subscriber, denoted generally as query **214**. In response to the query, the database may return one or more ads that are selected specifically for the subscriber, based on, for example, preferences or past history associated with the subscriber. These ads may be provisioned onto the device, so that when the subscriber first powers-on the device, or at any time afterwards, the ads are presented on the device.

Having described the components and data flows in FIG. 2, the discussion now turns to a description a plurality of different profiles that may be supported by the subscriber devices **104**, now presented with FIG. 3.

4

FIG. 3 illustrates a plurality of different profiles **302** that may be supported by the subscriber devices **104**. For example only, but not limitation, FIG. 3 shows an example subscriber device **104** associated with two profiles **302A** and **302N**, but single instances of the subscriber devices could support any number of different profiles. For example, a subscriber could configure his or her device with a profile for work-related use, and a profile for personal use. In other examples, the subscriber may define profiles pertaining to volunteer work, charitable activities, board-of-directors positions, or the like.

The various profiles **302** may be associated with one or more applications **304** and **306** that are available under the different profiles **302**. For example, a subscriber may use an enterprise e-mail application provided by his or her employer for work purposes, but may use a more basic e-mail application for personal correspondence. In any event, FIG. 3 shows the profile **302A** as associated with any number of applications **304A** and **304N**, and the profile **302N** as associated with any number of applications **306A** and **306N**.

The applications **304** and **306** may be associated with respective address books or other forms of contact lists, denoted generally at **308** and **310**. More specifically, FIG. 3 shows the application **304A** associated with an address book **308A**, and the application **304N** associated with an address book **308N**. FIG. 3 also shows the application **306A** associated with an address book **310A**, and the application **306N** associated with an address book **310N**.

The various address books **308** and/or **310** may include various instances of contact information **312** and/or **314**. This contact information may generally take any form suitable for addressing voice or data communications to a person, or for receiving such communications from a person. For example, the contact information may include phone numbers (e.g., **316A** and **316N**, collectively **316**), addresses (e.g., **318A** and **318N**, collectively **318**), or the like. The addresses **318** may take the form of network addresses, IP addresses, e-mail addresses, street address, Global Positioning Satellite coordinates or any other convenient form.

At any given time, the subscriber **102** may make one or more of the profiles **302** active, as denoted by blocks **320**. When different ones of the profiles are active, the applications and address books corresponding to the active profiles are available for execution. For example, if the subscriber **102** has defined a profile **302** for work-related purposes, the subscriber may have that work-related profile active whenever the subscriber is "on call" to respond to work-related matters.

Having described the profiles in connection with FIG. 3, the discussion now turns to a description of how these profiles may be used to handle incoming or outgoing communications, now presented with FIGS. 4 and 5.

FIG. 4 illustrates a process **400** that may be performed when the subscriber devices (e.g., **104**) receive terminating or incoming communications. While the process **400** is described in connection with certain components illustrated herein, it is noted that some or all of the process **400** may be performed with other components without departing from the scope of the description herein.

Block **402** represents receiving the incoming communication at the subscriber devices. These communications may take the form of incoming voice calls arriving via one or more circuit-switched or packet-switched communications network, or may be data communications (e.g., audio or video streams, e-mails, or the like).

Block **404** represents obtaining a telephone number, network address (as might be used in VoIP communications), or other similar identifier, indicating where the incoming communication is directed. For example, if an incoming voice call

5

is directed to (555) 555-1212, then block 404 may include obtaining this dialed number. Block 404 may thus include using the Dialed Number Information Service (DNIS), or other equivalents.

Block 406 represents searching one or more profiles associated with the device that receives the incoming communication. FIG. 3 shows examples of the profiles at 302. More specifically, block 406 may include searching contact information records (e.g., 312 and/or 314) for any contact that matches the incoming identifier obtained in block 404.

Decision block 408 may include evaluating whether the incoming identifier was located in any of the profiles. If not, the process 400 takes No branch 410 to block 412. In block 412, the process 400 may report this condition to the subscriber, and prompt the subscriber for instructions. In some instances, the process 400 may activate a default mode for the device, as represented generally in block 414. In block 416, the process 400 may start an application associated with this default mode. In these instances, the process 400 may omit the notification shown in block 412, but may instead perform block 414 and/or block 416 without providing the notification.

From block 408, if the incoming identifier was located in one of the profiles, then the process 400 takes Yes branch 418 to block 420. Block 420 represents placing the device into a mode corresponding to the profile in which the incoming identifier was located. For example, referring briefly to FIG. 3, assume that the incoming identifier of the phone number (555) 555-1212 was located under the profile 302A. In this scenario, block 420 may include placing the device into its business or professional mode.

Block 422 represents activating one or more applications in response to locating the incoming identifier in blocks 406 and 408. For example, assume that the profile 302A is associated with a business or professional mode, and, as such, is associated with one or more enterprise-type applications 304. Block 422 may include activating these applications so that the subscriber may readily use them to respond or process the incoming communication.

FIG. 5 illustrates a process 500 that may be performed when the wireless communications devices initiate outgoing communications. While the process 500 is described in connection with certain components illustrated herein, it is noted that some or all of the process 500 may be performed with other components without departing from the scope of the description herein.

Block 502 represents enabling the subscriber to configure the device into one of a plurality of different operating modes (e.g., business, personal, or the like) and select an application with which to initiate the outgoing communication, using a device such as the device 104. Block 502 may include enabling the user to select a profile in which the device is to operate. Examples of profiles are shown in FIG. 3 at 320.

Block 504 represents loading any address books, contact lists, or similar structures for presentation to the subscriber. Block 504 may include loading the entries in the address book into a menu structure for review and selection by the subscriber.

Block 506 represents presenting the list of contacts to the subscriber. The contacts may be associated with one or more instances of contact information (e.g., telephone numbers, network or IP addresses, e-mail addresses, chat or IM names, or the like). Block 506 may include presenting these instances of contact information.

Block 508 represents receiving a selection of one of the contacts, as a destination or target of the outgoing communication. In instances where a given contact is associated with

6

more than one instance of contact information, block 508 may include enabling the subscriber to select the contact information to use for the outgoing communication.

Finally, block 512 represents creating and sending a call detail record relating to the outgoing communication.

Having described the process flows with FIGS. 4 and 5, the discussion now turns to a description of illustrative servers that may be included in the communication services provider, now presented with FIG. 6.

FIG. 6 illustrates example components of the communications service provider 122, suitable for supporting life cycle management of user-selected applications on wireless communications devices. The device 104 may communicate with the provider 122 through a wireless access point 602, which generally functions to provide a gateway into a broadband communications network. For example, the access point 602 may be implemented as a wireless router that is compliant with WiFi (i.e., IEEE 802.11) or WIMAX (i.e., IEEE 802.16) specifications to operate within unlicensed communication frequencies. Additionally, other implementations of the access point 602 may operate within licensed communication spectrum with a variety of broadband wireless IP protocols: (e.g., WiMax, UMTS/HSDPA, CDMA EVDO, EDGE, and the like).

The communications service provider 122 may include one or more application servers, as shown in FIG. 6. The configuration shown in FIG. 6 is chosen for convenience only, but not to limit possible implementations of the communications service provider 122. More specifically, the various servers are shown only for ease of reference in describing different illustrative functions, and these functions could be combined or redistributed among different servers without departing from the scope and spirit of the description herein.

Turning to the servers in more detail, some of the servers may be related to core functions, such as those represented in FIG. 1 at block 112. For example, a registration and authentication application server 604 may handle core functions such as registering and authenticating the device 104 onto communication networks. A mobility management handover application server 606 may administer the handing over of the devices 104 from one cell to another as the devices move geographically. A VoIP application server 608 may store and distribute voice or data packets related to ongoing conversations, in implementations using the Voice of IP protocol. A menu application server 610 may control the display and choices of applications that are available to the subscriber to download. A billing application server 612 maintains billing and call detail records relating to the various subscribers 102. As the subscribers originate outgoing communications and/or receive in coming communications, the billing server 612 updates call detail records accordingly.

An application life cycle maintenance management server 614 administers subscriber-selected functions, such as those represented in FIG. 1 at block 114. Generally, the management server 614 enables the subscribers 102 to configure their devices 104 as most appropriate for their intended uses, enabling the subscribers to download and install particular applications. Further details relating to functions performed by the management server 614 are now provided with FIG. 7.

An advertising application server 616 may store the advertisements that are presented to the subscribers 102 via the devices 104. Examples of advertisements are shown in FIG. 2 at 204 and 206. FIG. 2 also shows example advertisement presentation modules at 202. The advertising application server 616 may, for example, push advertising content to the advertisement presentation modules on the devices 104.

A location application server **618** may store and track the locations of various subscriber devices **104**. In this manner, the location application server may enable the communication services provider to monitor the locations of the devices **104** at any particular time.

A video on demand application server **620** may store video content that may be streamed on demand to the subscriber device **104**. Thus, the video on demand application server may enable subscribers to access video content via the device **104**.

A multiplayer gaming application **622** may store gaming content, and enable subscribers to access the gaming content via the devices **104**. In some instances, the multiplayer gaming application may enable two or more of the subscribers to play games with one another, whether in adversarial or collaborative roles. In other instances, the multiplayer gaming application may enable single subscribers to access the gaming content on a more solitary basis.

FIG. 7 illustrates several examples of functions that may be performed by the application life cycle maintenance management server **614**, as shown in FIG. 6. As represented generally in block **702**, the management server **614** may manage how the devices **104** are configured, for example, when the subscribers first obtain the devices **104** or at any time afterwards. More specifically, the configuration management block **702** may receive data representing a selection **704** made by a subscriber (e.g., the subscriber **102**) of one or more applications (e.g., the applications **110A** and **110N**) for installation on the device **104**.

The configuration management block **702** may pass the selection **704** through to a matching engine **706**, which determines whether the selected application may be installed on the device. The matching engine may receive data representing minimum configuration parameters **708** for different respective applications **110**. The matching engine may also receive data representing capabilities **710** of particular devices, such as the amount of available storage. It is assumed that the device **104** as shown in FIG. 7 is associated with the subscriber **102**, such that the subscriber has requested to install an application onto the device.

The matching engine **706** may compare the configuration parameters **708** for a given application to the capabilities **710** of a given device, to determine whether the application may be installed on the device. Examples of these device capabilities may include memory capacity, processor speed, display capabilities, and the like. If the capabilities **710** of the given device match or exceed the configuration parameters **708** for the given application, then the application may be installed on the device. A match signal **712** may indicate whether the application may be installed on the device, and may pass from the matching engine to the configuration management block **702**.

If the match signal **712** indicates that the application may be installed on the device, the configuration management block **702** may so install the application, as represented at **714**. However, if the match signal **712** indicates that the application is not a match for the device as currently configured, the configuration block **702** may recommend that the subscriber delete one or more applications currently installed on the device, as represented at **716**. Additionally, the configuration block **702** may recommend that the subscriber upgrade to, a different device, as represented at **718**. In this latter scenario, the configuration block **702** may provision the upgraded device with the applications **110** previously selected by the subscriber.

Once the device is installed and configured with the selected applications, the management server **614** may

administer any licensing issues related to these applications on an ongoing basis. Block **720** represents this license administration function. Typically, the subscriber, when installing applications onto the device, does not obtain ownership rights in the applications, but instead obtains a license to use the application. These license rights may be subject to the subscriber paying license fees and/or performing other obligations. These payments and other obligations may be tracked by the billing server **612**, shown in FIG. 6 and carried forward to FIG. 7 for convenience.

If the subscriber remains current on any license payments related to a given application, and performs any other obligations, then the license administration block **720** grants the subscriber continued access to the given application, as represented at **722**. However, if the subscriber is not current on the license payments related to a given application, or fails to perform any other obligations, then the license administration block **720** may send a notification to the subscriber, detailing what the subscriber may do to become current and maintain access to the applications. If the subscriber does not become current, the license administration block **720** may remove or disable the given application on the subscriber's device, as represented at **724**.

The management server **614** may also manage the client applications installed on the devices, as subsequent versions of those applications become available. For example, vendors providing those applications (e.g., the application providers **120** in FIG. 1) may introduce new features, fix bugs present in earlier versions, or the like. In any event, an application version management block **726** may receive data **728** representing versions of one or more applications currently installed on the device. The version management block **726** may also receive data **730** representing the newest versions of those applications. If the newest versions of the applications are not installed on the device, then the version management block **726** may push updated versions of the applications to the device. These updated versions are represented in FIG. 7 at **732**. The updated versions **732** may be pushed to the devices **104** when the devices **104** are in communication with the services provider **122** and the management server **614**.

Having provided the above description, several observations are now noted. The tools and techniques described above for performing life cycle management of user-selected applications on wireless communications devices enable use of a client-services model for maintaining the applications on the devices, with the services provider **122** (and related components) assuming a server role, and the various devices **104** assuming a client role. Additionally, the services provider **122** and the management server **614** may provide a network-based, automated platform for configuring and managing application installed on a variety of subscriber devices, thereby relieving the subscribers from these tasks.

It is noted that the various modules and servers shown in the Figures herein may be implemented in hardware, software, or any combination thereof. Additionally, these modules and servers are shown as separate items only for convenience of reference and description, and these representations do not limit possible implementations of the teachings herein. Instead, various functions described with these modules and servers could be combined or separated as appropriate in a given implementation, without departing from the scope and spirit of the description herein.

CONCLUSION

Although tools and techniques for performing life cycle management of user-selected applications on wireless com-

munications devices have been described in language specific to certain features and methods, it is to be understood that the features defined in the appended claims are not necessarily limited to the specific features and methods described. Rather, the specific features and methods are disclosed as illustrative forms of implementing the claimed subject matter.

What is claimed is:

1. A method, comprising:

receiving, by a system comprising a processor, from a user interface of a mobile communications device, a first user input for configuring a first user profile to be maintained at the mobile communications device;

receiving, by the system, from the user interface of the mobile communications device, a second user input for configuring a second user profile, distinct from the first profile, to be maintained at the mobile communications device;

receiving, by the system, from the user interface of the mobile communications device, a third user input indicating the first user profile and a first executable application to initiate an installation of the first executable application in association with the first user profile at the mobile communications device;

receiving, by the system, from the user interface of the mobile communications device, a fourth user input indicating the second user profile and a second executable application to initiate an installation of the second executable application in association with the first user profile at the mobile communications device;

initiating, by the system, in response to the third user input, a storage of the first executable application at a memory of the mobile communications device such that the first executable application is associated in the memory with the first user profile maintained at the mobile communications device; and

initiating, by the system, in response to the fourth user input, a storage of the second executable application at the memory of the mobile communications device such that the second executable application is associated in the memory with the second user profile maintained at the mobile communications device.

2. The method of claim 1, further comprising:

receiving a communication; and

determining that the communication is not associated with any pre-set user profile, including the first user profile and the second user profile, at the mobile communications device.

3. The method of claim 2, wherein:

the first user profile is associated with a first mode of operation for the mobile communications device;

the second user profile is associated with a second mode of operation for the mobile communications device; and

the method further comprises initiating a switching of the mobile communications device to a default mode, for processing the communication, in response to determining that the communication is not associated with any pre-set user profile at the mobile communications device, wherein the default mode differs from the first mode associated with the first user profile and the second mode associated with the second user profile.

4. The method of claim 2, further comprising initiating a presentation, by the mobile communications device, of a user notification in response to determining that the communication is not associated with any pre-set user profile, wherein the user notification indicates that the received communication is not associated with any pre-set user profile at the mobile communications device.

5. The method of claim 4, wherein the notification includes a prompt requesting user instructions.

6. The method of claim 1, further comprising initiating at least one presentation, by the mobile communications device, of a plurality of executable applications as options for installation at the mobile communications device, wherein:

the first user input is received in response to the presentation of the plurality of executable applications; and

the second user input is received in response to the presentation of the plurality of executable applications.

7. The method of claim 1, further comprising:

receiving a communication; and

determining that the communication is associated with the first user profile at the mobile communications device.

8. The method of claim 7, further comprising initiating, in response to determining that the communication is associated with the first user profile, a switching of the mobile communications device to a first mode associated with the first user profile at the mobile communications device.

9. The method of claim 7, further comprising activating, in response to determining that the communication is associated with the first user profile, the first executable application, associated with the first user profile at the mobile communications device, for processing the communication received.

10. The method of claim 7, wherein:

the communication is a first communication; and

the method further comprises:

receiving a second communication; and

determining that the second communication is associated with the second user profile at the mobile communications device.

11. The method of claim 10, further comprising initiating, in response to determining that the second communication is associated with the second user profile, a switching of the mobile communications device to a second mode associated with the second user profile at the mobile communications device.

12. The method of claim 10, further comprising activating, in response to determining that the second communication is associated with the second user profile, the second executable application, associated with the second user profile at the mobile communications device, for processing the second communication received.

13. The method of claim 1, wherein:

the first user profile is associated with business use of the mobile communications device; and

the second user profile is associated with personal use of the mobile communications device.

14. The method of claim 1, wherein:

the first user profile is associated with a first identifier and a first mode for the mobile communications device;

the second user profile is associated with a second identifier, being distinct from the first identifier, and a second mode for the mobile communications device; and

the method further comprises:

obtaining a communication identifier from the communication;

determining whether the communication identifier matches an identifier of the first user profile and the second user profile; and

placing the device in the first mode in response to determining the communication identifier matches the first identifier.

15. The method of claim 14, further comprising activating, in response to placing the device in the first mode, the first executable application, for processing the communication received.

11

16. A system, comprising:
 a processor; and
 a computer-readable storage device comprising a non-transitory computer-executable instructions that, when executed by the processor, cause the processor to perform operations comprising:
 receiving, from a user interface of a mobile communications device, a first user input for configuring a first user profile to be maintained at the mobile communications device;
 receiving, from the user interface of the mobile communications device, a second user input for configuring a second user profile, distinct from the first profile, to be maintained at the mobile communications device;
 receiving, from the user interface of the mobile communications device, a third user input indicating the first user profile and a first executable application to initiate an installation of the first executable application in association with the first user profile at the mobile communications device;
 receiving, from the user interface of the mobile communications device, a fourth user input indicating the second user profile and a second executable application to initiate an installation of the second executable application in association with the first user profile at the mobile communications device;
 initiating, in response to the third user input, a storage of the first executable application at a memory of the mobile communications device such that the first executable application is associated in the memory with the first user profile maintained at the mobile communications device; and
 initiating, in response to the fourth user input, a storage of the second executable application at the memory of the mobile communications device such that the second executable application is associated in the memory with the second user profile maintained at the mobile communications device.

17. The system of claim 16, wherein:
 the first user profile is associated with a first identifier and a first mode for the mobile communications device;
 the second user profile is associated with a second identifier, being distinct from the first identifier, and a second mode for the mobile communications device; and
 the operations further comprise:
 obtaining a communication identifier from the communication;
 determining whether the communication identifier matches an identifier of the first user profile and the second user profile; and

12

placing the device in the first mode in response to determining the communication identifier matches the first identifier.

18. The system of claim 17, wherein the operations further comprise activating, in response to placing the device in the first mode, the first executable application, for processing the communication received.

19. The system of claim 16, wherein:
 the first user profile is associated with business use of the mobile communications device; and
 the second user profile is associated with personal use of the mobile communications device.

20. A computer-readable storage device comprising a non-transitory computer-executable instructions that, when executed by a processor, cause the processor to perform operations comprising:
 receiving, from a user interface of a mobile communications device, a first user input for configuring a first user profile to be maintained at the mobile communications device;
 receiving, from the user interface of the mobile communications device, a second user input for configuring a second user profile, distinct from the first profile, to be maintained at the mobile communications device;
 receiving, from the user interface of the mobile communications device, a third user input indicating the first user profile and a first executable application to initiate an installation of the first executable application in association with the first user profile at the mobile communications device;
 receiving, from the user interface of the mobile communications device, a fourth user input indicating the second user profile and a second executable application to initiate an installation of the second executable application in association with the first user profile at the mobile communications device;
 initiating, in response to the third user input, a storage of the first executable application at a memory of the mobile communications device such that the first executable application is associated in the memory with the first user profile maintained at the mobile communications device; and
 initiating, in response to the fourth user input, a storage of the second executable application at the memory of the mobile communications device such that the second executable application is associated in the memory with the second user profile maintained at the mobile communications device.

* * * * *